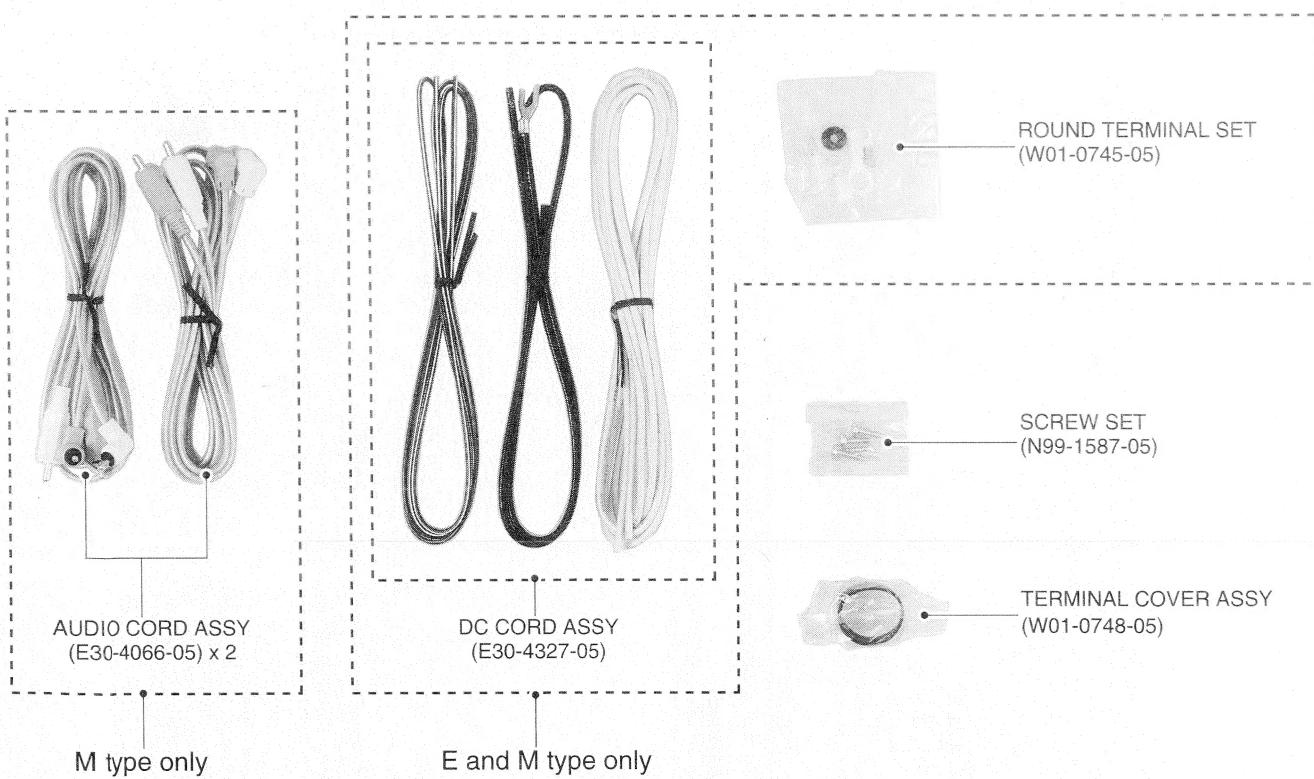
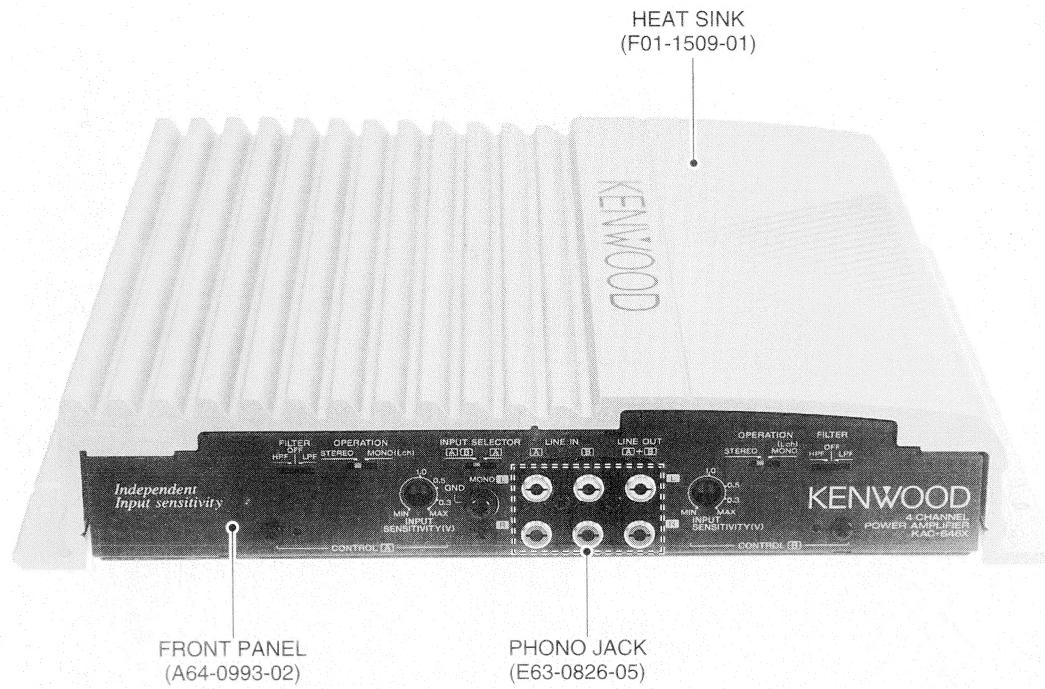


POWER AMPLIFIER  
**KAC-646X**  
SERVICE MANUAL

**KENWOOD**

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B51-7154-00 (K) 3621



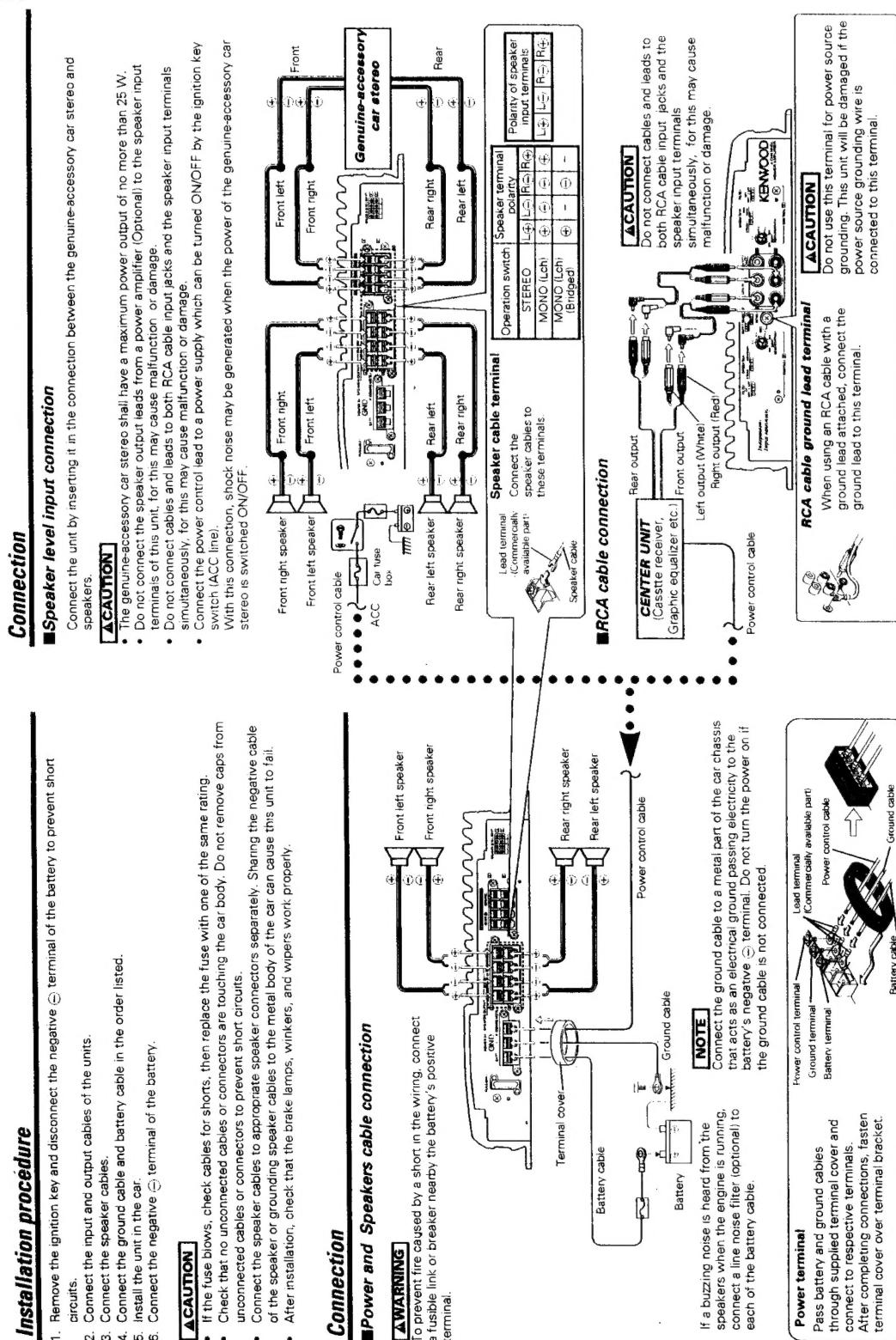
# KAC-646X

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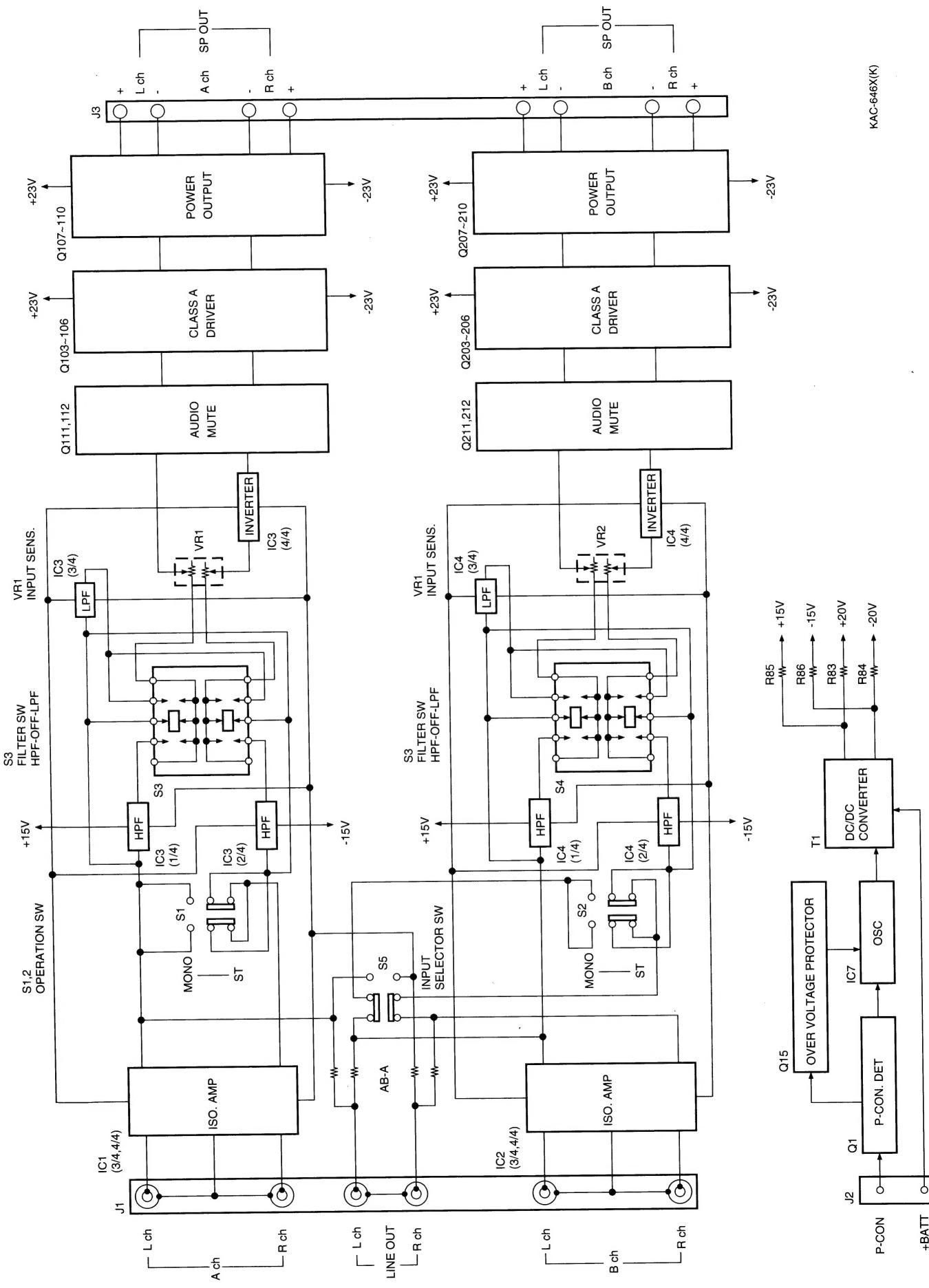
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### CONNECTION



# KAC-646X

## BLOCK DIAGRAM



# KAC-646X

## COMPONENTS DESCRIPTION

### AUDIO UNIT (X09-5220-10)

Ref. No.	Use / Function	Operation / Condition
Q9~12	OVER CURRENT PROTECTOR	Stops IC7 working when over current runs into the base terminal.
Q15	OVER VOLTAGE PROTECTOR	Stops IC7 working when the power supply voltage is over 17V.

# KAC-646X

## ADJUSTMENT

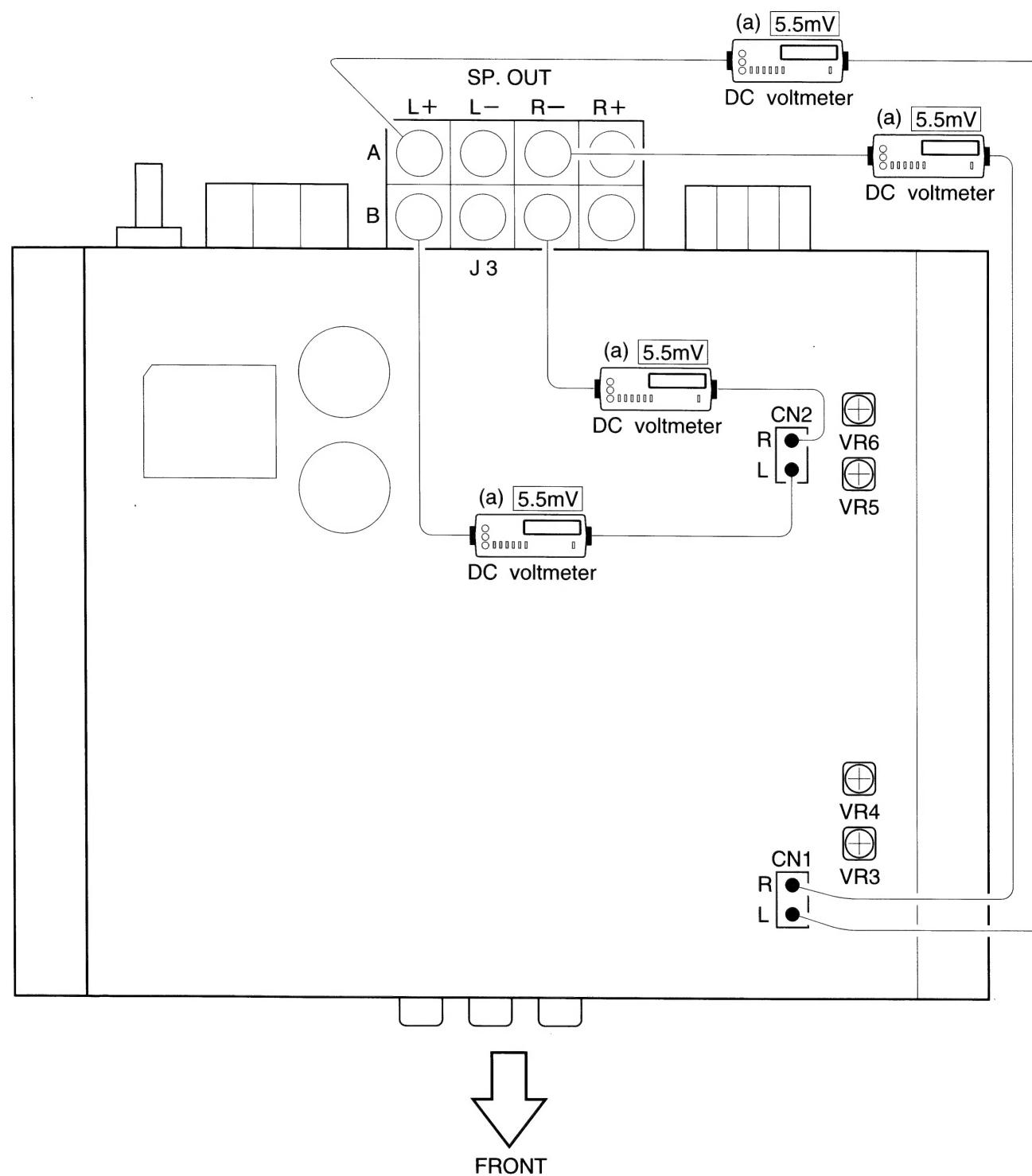
No.	Item	Input Setting	Output Setting	Amp. Setting	Adjustment Point	Adjustment Method	Fig.
<b>Connect the cassette receiver, etc.</b>							
1	IDLE CURRENT	-	Connect a DC voltmeter between CN1/CN2 and J3(SP.OUT, L+/R-)	VOLUME : 0	(A) VR3(Lch) VR4(Rch) (B) VR5(Lch) VR6(Rch)	5.5mV	(a)

## EINSTELLUNGEN

Nr.	Gegenstand	Eingangseinstellung	Ausgangseinstellung	Verstaerkereinstellung	Einstellpunkt	Einstellmethode	Abb.
<b>Das Kassettenraet, den Empfaenger usw. anschliessen.</b>							
1	IDLE CURRENT	-	Ein Gleichstrom-Voltmeter zwischen CN1/CN2 und J3(SP.OUT, L+/R-)	VOLUM : 0	(A) VR3(Lch) VR4(Rch) (B) VR5(Lch) VR6(Rch)	5.5mV	(a)

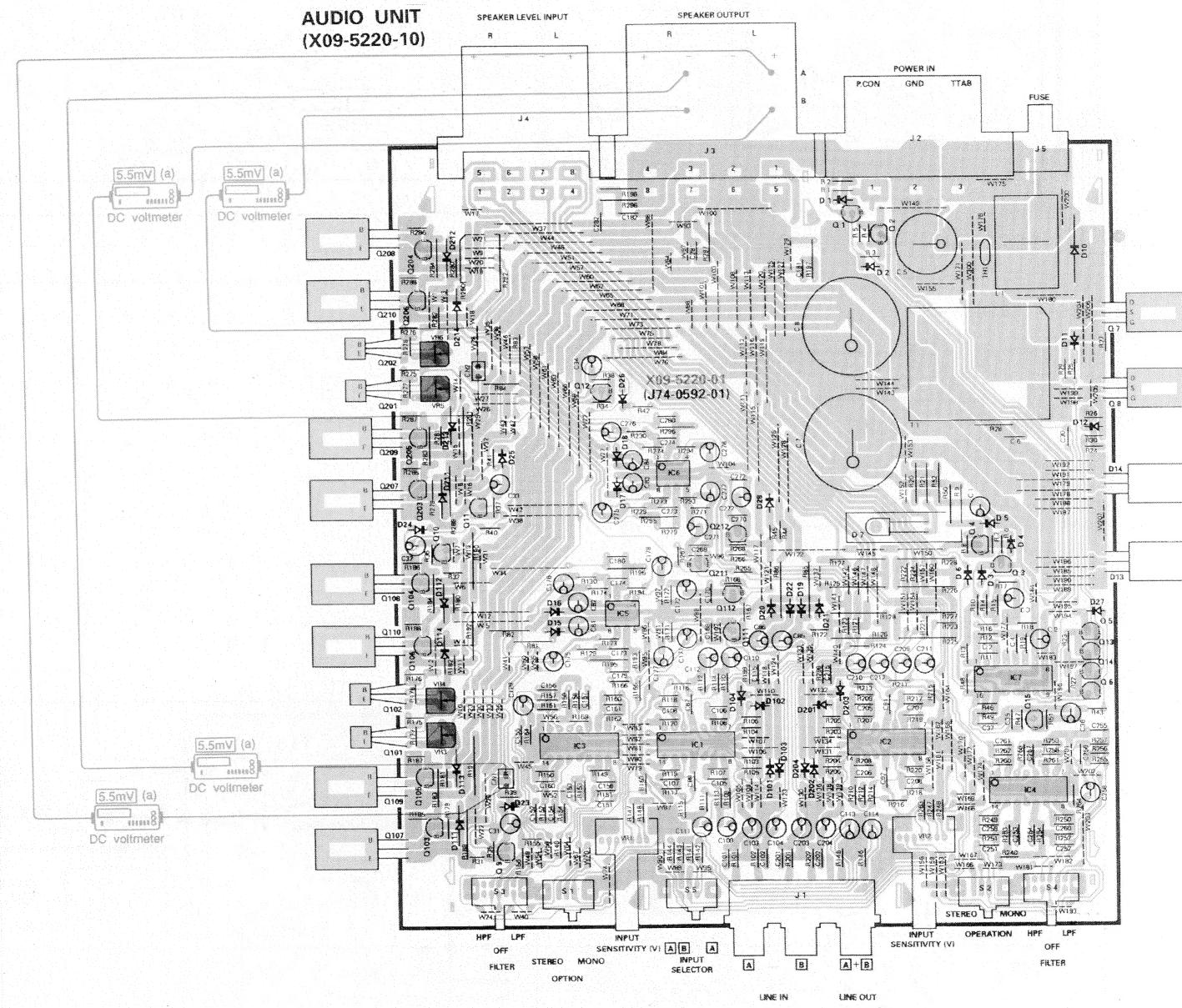
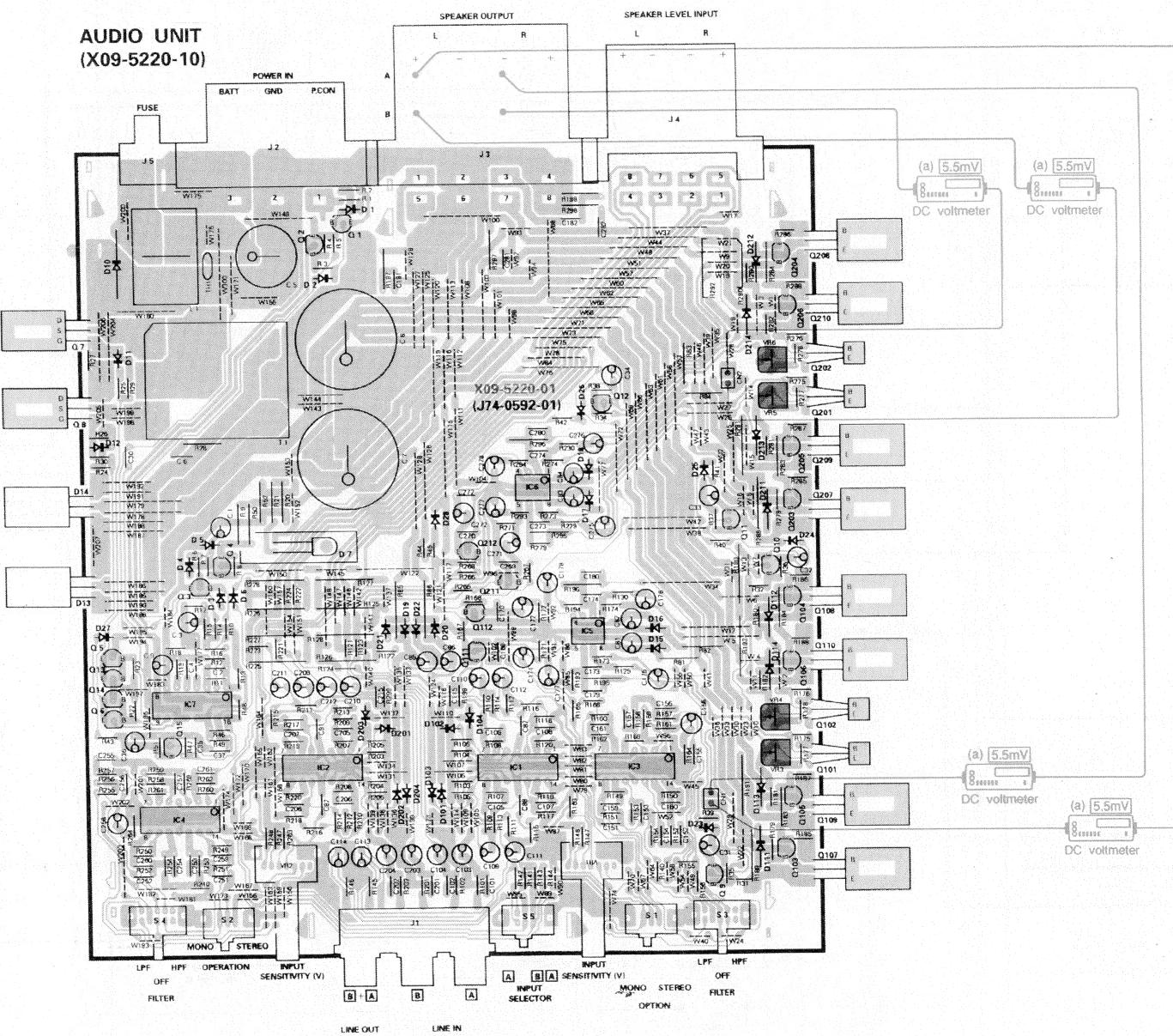
# KAC-646X

## ADJUSTMENT POINT VIEW



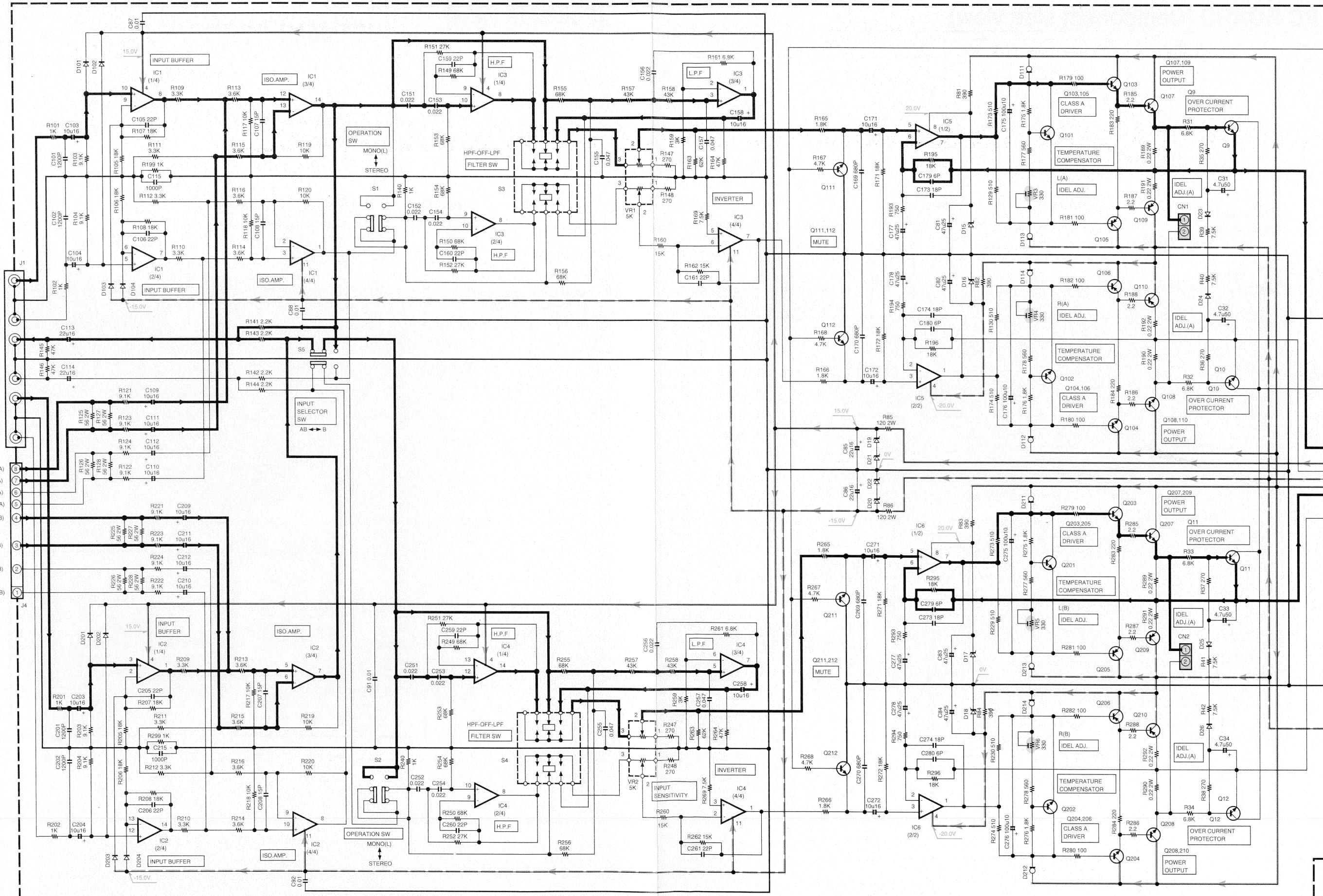
## **PC BOARD (Component side view)**

**(Foil side view)**



Refer to the schematic diagram for the values of resistors and capacitors.

## AUDIO UNIT (X09-5220-10)



**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

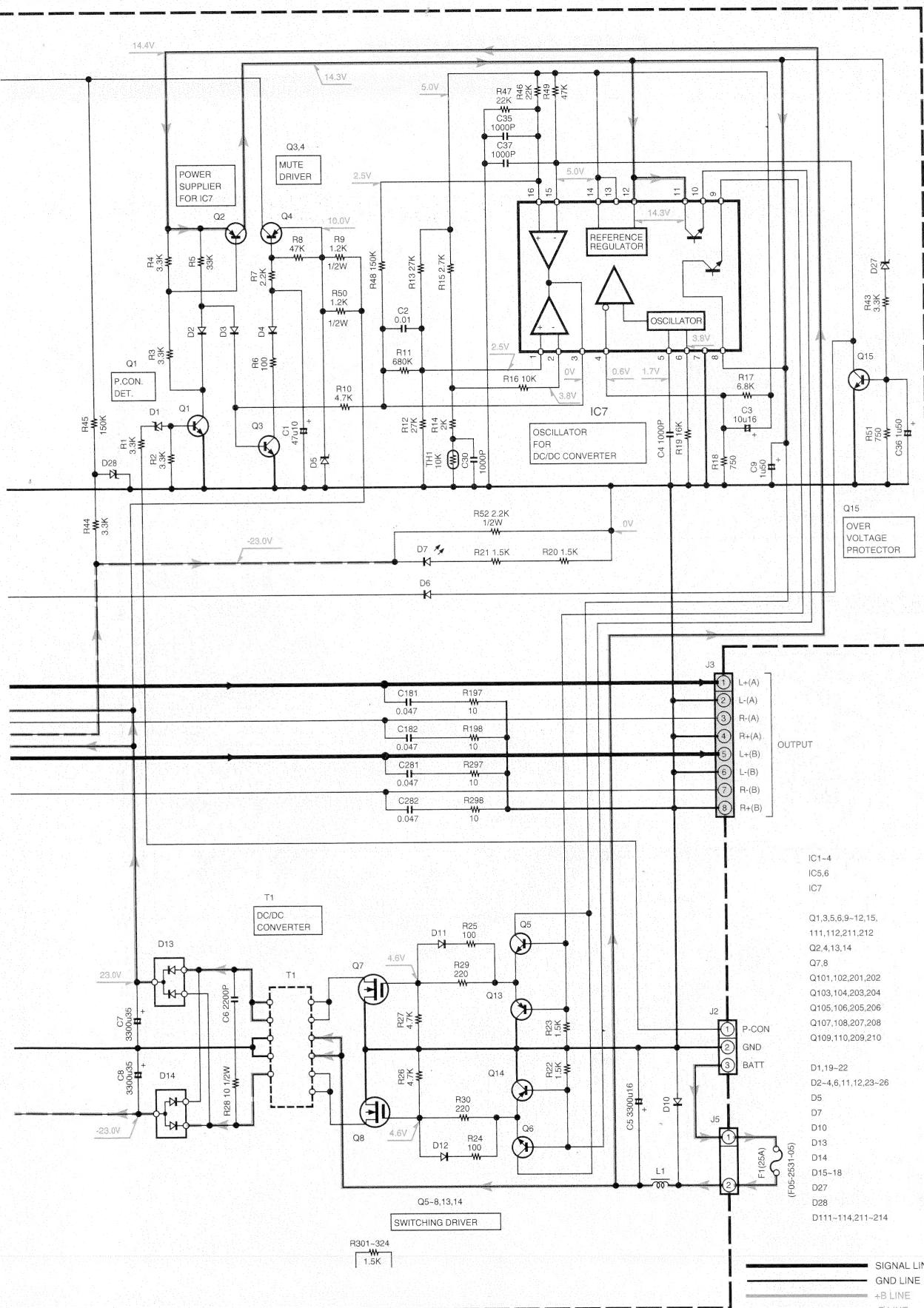
K

L

M

N

O

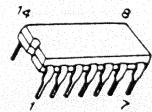


IC1-4	: UPC4574C
IC5,6	: M5219P
IC7	: UPC494C
Q1,3,5,6,9-12,15, 111,112,211,212	: 2SC945(A)(Q,P)
Q2,4,13,14	: 2SA733(A)(Q,P)
Q7,8	: MTAJ50N05HDLFK
Q101,102,201,202	: 2SC945(A)(Q)
Q103,104,203,204	: 2SC1627A
Q105,106,205,206	: 2SA417A
Q107,108,207,208	: 2SC4511*B
Q109,110,209,210	: 2SA1725B
D1,19-22	: RD7.5JS(B)
D2-4,6,11,12,23-26	: MA165
D5	: RD10JS(B)
D7	: B30-1460-05
D10	: RM4ZLF-J1
D13	: FMU22S'A
D14	: FMU22R'A
D15-18	: RD12JS(B)
D27	: RD15JS(B)
D28	: RD5.1JS(B)
D111-114,211-214	: E-562

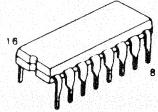
KAC-646X(K)

2SA1725\*B  
2SC4511\*B

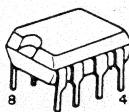
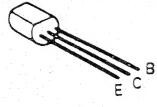
UPC4574C



UPC494C

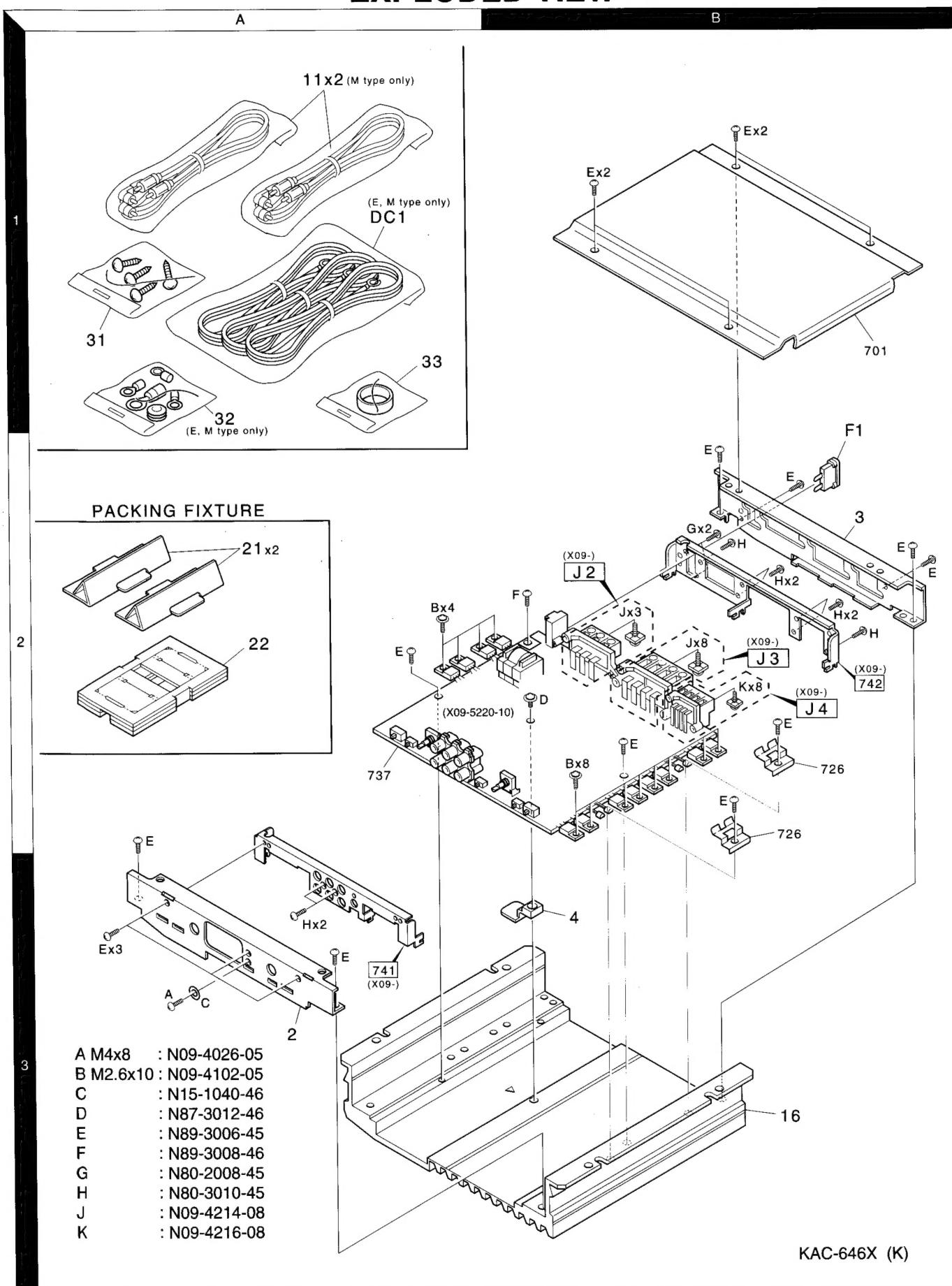


M5219P

2SA733(A)  
2SA817A  
2SC1627A  
2SC945(A)

**KAC-646X**

# **EXPLODED VIEW**



**Parts with the exploded numbers larger than 700 are not supplied.**

## PARTS LIST

\*New Parts

Parts without **Part No.** are not supplied.Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

(X09-5220-10)

Refer. No.	A d d e d	N e w	Parts No.	Description	Desti- nation
<b>KAC-646X</b>					
2	3A	*	A64-0993-02	FRONT PANEL	
3	2B	*	A84-0117-02	REAR PANEL	
4	3B		B19-1061-03	LIGHTING BOARD	
-			B46-0100-50	WARRANTY CARD	
-		*	B64-0898-00	INST.MANUAL (ENGLISH,FRENCH)	K
-		*	B64-0899-00	INST.MANUAL (SPANISH)	K
-		*	B64-0900-00	INST.MANUAL (ENGLISH,FRENCH)	E
-		*	B64-0901-00	INST.MANUAL (GERMAN,DUTCH)	E
-		*	B64-0902-00	INST.MANUAL (ITALIAN,SPANISH)	E
-		*	B64-0903-00	INST.MANUAL (PORTUGUESE)	E
-		*	B64-0904-00	INST.MANUAL (ENGLISH,FRENCH)	M
-		*	B64-0905-00	INST.MANUAL (SPANISH)	M
11	1A		E30-4066-05	AUDIO CORD ASSY	M
DC1	1A		E30-4327-05	DC CORD ASSY (C.C.)	EM
16	3B	*	F01-1509-01	HEAT SINK	
F1	1B		F05-2531-05	FUSE (25A, BLADE TYPE)	
21	2A		H12-2606-14	PACKING FIXTURE (x2)	
22	2A	*	H12-2609-03	PACKING FIXTURE (x1)	
-			H25-0321-04	PROTECTION BAG (600x315x0.03)	
-			H25-0336-04	PROTECTION BAG (170x250x0.03)	
-		*	H54-0714-03	ITEM CARTON CASE	
A	3A		N09-4026-05	TAPPING SCREW (M4x8, TP,S)	
B	2A		N09-4102-05	SEMS (MACHINE SCREW)(M2.6x10)	
C	3A		N15-1040-46	FLAT WASHER	
D	2B		N87-3012-46	BRAZIER HEAD TAPTITE SCREW	
E	1B		N89-3006-45	BINDING HEAD TAPTITE SCREW	
F	2B		N89-3008-46	BINDING HEAD TAPTITE SCREW	
31	1A		N99-1587-05	SCREW SET	
32	1A		W01-0745-05	ROUND TERMINAL SET (C.C.)	EM
33	1A		W01-0748-05	TERMINAL COVER ASSY	
<b>AUDIO UNIT (X09-5220-10)</b>					
D7			B30-1460-05	LED (RED)	
C1			CE04DW1A470M	ELECTRO	47UF 10WV
C2			CK45FF1H103Z	CERAMIC	0.010UF Z
C3			CE04DW1C100M	ELECTRO	10UF 16WV
C4			CF92FV1H102J	MF-C	1000PF J
C5			C90-2689-05	ELECTRO	3300UF 16WV
C6			CF92FV1H222J	MF-C	2200PF J
C7 ,8			C90-1616-05	ELECTRO	3300UF 35WV
C9			CE04DW1H010M	ELECTRO	1.0UF 50WV
C30			CK45FB1H102K	CERAMIC	1000PF K
C31 -34			CE04DW1H4R7M	ELECTRO	4.7UF 50WV
C35			CK45FB1H102K	CERAMIC	1000PF K
C36			CE04DW1H010M	ELECTRO	1.0UF 50WV
C37			CK45FB1H102K	CERAMIC	1000PF K
C81 -84			CE04DW1E470M	ELECTRO	47UF 25WV
C85 ,86			CE04DW1C220M	ELECTRO	22UF 16WV

**E:** Europe**K:** North America**M:** Other Areas**W:** Without Europe

Refer. No.	A d d e d	N e w	Parts No.	Description	Desti- nation
C87 ,88			CK45FF1H103Z	CERAMIC	0.010UF Z
C91 ,92			CK45FF1H103Z	CERAMIC	0.010UF Z
C101,102			CK45FB1H122K	CERAMIC	1200PF K
C103,104			CE04DW1C100M	ELECTRO	10UF 16WV
C105,106			CC45FSL1H220J	CERAMIC	22PF J
C107,108			CC45FCH1H150J	CERAMIC	15PF J
C109-112			CE04DW1C100M	ELECTRO	10UF 16WV
C113,114			CE04DW1C220M	ELECTRO	22UF 16WV
C115			CF92FV1H102J	MF-C	1000PF J
C151-154			CF92FV1H223J	MF-C	0.022UF J
C155			CF92FV1H473J	MF-C	0.047UF J
C156			CF92FV1H223J	MF-C	0.022UF J
C157			CF92FV1H473J	MF-C	0.047UF J
C158			CE04DW1C100M	ELECTRO	10UF 16WV
C159-161			CC45FSL1H220J	CERAMIC	22PF J
C169,170			CK45FB1H681K	CERAMIC	680PF K
C171,172			CE04DW1C100M	ELECTRO	10UF 16WV
C173,174			CC45FSL1H180J	CERAMIC	18PF J
C175,176			CE04DW1A101M	ELECTRO	100UF 10WV
C177,178			CE04DW1E470M	ELECTRO	47UF 25WV
C179,180			CC45FSL1H060D	CERAMIC	6.0PF D
C181,182			CF92FV1H473J	MF-C	0.047UF J
C201,202			CK45FB1H122K	CERAMIC	1200PF K
C203,204			CE04DW1C100M	ELECTRO	10UF 16WV
C205,206			CC45FSL1H220J	CERAMIC	22PF J
C207,208			CC45FCH1H150J	CERAMIC	15PF J
C209-212			CE04DW1C100M	ELECTRO	10UF 16WV
C215			CF92FV1H102J	MF-C	1000PF J
C251-254			CF92FV1H223J	MF-C	0.022UF J
C255			CF92FV1H473J	MF-C	0.047UF J
C256			CF92FV1H223J	MF-C	0.022UF J
C257			CF92FV1H473J	MF-C	0.047UF J
C258			CE04DW1C100M	ELECTRO	10UF 16WV
C259-261			CC45FSL1H220J	CERAMIC	22PF J
C269,270			CK45FB1H681K	CERAMIC	680PF K
C271,272			CE04DW1C100M	ELECTRO	10UF 16WV
C273,274			CC45FSL1H180J	CERAMIC	18PF J
C275,276			CE04DW1A101M	ELECTRO	100UF 10WV
C277,278			CE04DW1E470M	ELECTRO	47UF 25WV
C279,280			CC45FSL1H060D	CERAMIC	6.0PF D
C281,282			CF92FV1H473J	MF-C	0.047UF J
CN1 ,2			E40-3640-05		PIN ASSY (2P) (IDLE ADJ.)
J1			E63-0826-05		PHONO JACK (6P)
J2	2B		E70-0807-05		TERMINAL BOARD ASSY (3P) (CC)
J3	2B		E70-0819-05		TERMINAL BOARD ASSY (8P)
J4	2B		E70-0821-05		TERMINAL BOARD ASSY (8P)
J5			J13-0602-05		FUSE HOLDER (C.C.)
L1			L33-1032-05		CHOKE COIL
T1		*	L19-0556-05		DC/DC CONVERTER
G	2B		N80-2008-45		PAN HEAD TAPTITE SCREW
H	2B		N80-3010-45		PAN HEAD TAPTITE SCREW
J	2B	*	N09-4214-08		SEMS (MACHINE SCREW) (J2,3)
K	2B	*	N09-4216-08		SEMS (MACHINE SCREW) (J4)

⚠ indicates safety critical components.

# KAC-646X

## PARTS LIST

\*New Parts

Parts without **Part No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

(X09-5220-10)

Refer. No.	A d d e w	Parts No.	Description			Desti-nation	Refer. No.	A d d e w	Parts No.	Description			Desti-nation
R1 -4		RD14BB2C332J	RD	3.3K	J	1/6W	R163		RD14BB2C623J	RD	62K	J	1/6W
R5		RD14BB2C333J	RD	33K	J	1/6W	R164		RD14BB2C473J	RD	47K	J	1/6W
R6		RD14BB2C101J	RD	100	J	1/6W	R165,166		RD14BB2C182J	RD	1.8K	J	1/6W
R7		RD14BB2C222J	RD	2.2K	J	1/6W	R167,168		RD14BB2C472J	RD	4.7K	J	1/6W
R8		RD14BB2C473J	RD	47K	J	1/6W	R169		RD14BB2C752J	RD	7.5K	J	1/6W
R9		RD14DB2H122J	SMALL-RD	1.2K	J	1/2W	R171,172		RD14BB2C183J	RD	18K	J	1/6W
R10		RD14BB2C472J	RD	4.7K	J	1/6W	R173,174		RD14BB2C511J	RD	510	J	1/6W
R11		RD14BB2C684J	RD	680K	J	1/6W	R175,176		RD14BB2C182J	RD	1.8K	J	1/6W
R12,13		RD14BB2C273J	RD	27K	J	1/6W	R177,178		RD14BB2C561J	RD	560	J	1/6W
R14		RD14BB2C202J	RD	2.0K	J	1/6W	R179-182		RD14BB2C101J	RD	100	J	1/6W
R15		RD14BB2C272J	RD	2.7K	J	1/6W	R183,184		RD14BB2E221J	RD	220	J	1/4W
R16		RD14BB2C103J	RD	10K	J	1/6W	R185-188		RD14BB2C2R2J	RD	2.2	J	1/6W
R17		RD14BB2C682J	RD	6.8K	J	1/6W	R189-192		RS14KB3DR22J	FL-PROOF RS	0.22	J	2W
R18		RD14BB2C751J	RD	750	J	1/6W	R193,194		RD14BB2C751J	RD	750	J	1/6W
R19		RD14BB2C163J	RD	16K	J	1/6W	R195,196		RD14BB2E183J	RD	18K	J	1/4W
R20,21		RD14BB2E152J	RD	1.5K	J	1/4W	R197,198		RD14BB2E100J	RD	10	J	1/4W
R22,23		RD14BB2C152J	RD	1.5K	J	1/6W	R199		RD14BB2C102J	RD	1.0K	J	1/6W
R24,25		RD14BB2C101J	RD	100	J	1/6W	R201,202		RD14BB2C102J	RD	1.0K	J	1/6W
R26,27		RD14BB2C472J	RD	4.7K	J	1/6W	R203,204		RD14BB2C912J	RD	9.1K	J	1/6W
R28		RD14DB2H100J	SMALL-RD	10	J	1/2W	R205-208		RD14BB2C183J	RD	18K	J	1/6W
R29,30		RD14BB2C221J	RD	220	J	1/6W	R209-212		RD14BB2C332J	RD	3.3K	J	1/6W
R31-34		RD14BB2C682J	RD	6.8K	J	1/6W	R213-216		RD14BB2C362J	RD	3.6K	J	1/6W
R35-38		RD14BB2C271J	RD	270	J	1/6W	R217-220		RD14BB2C103J	RD	10K	J	1/6W
R39-42		RD14BB2C752J	RD	7.5K	J	1/6W	R221-224		RD14BB2C912J	RD	9.1K	J	1/6W
R43,44		RD14BB2C332J	RD	3.3K	J	1/6W	R225-228		RS14KB3D560J	FL-PROOF RS	56	J	2W
R45		RD14BB2C154J	RD	150K	J	1/6W	R229,230		RD14BB2C511J	RD	510	J	1/6W
R46,47		RD14BB2C223J	RD	22K	J	1/6W	R240		RD14BB2C102J	RD	1.0K	J	1/6W
R48		RD14BB2C154J	RD	150K	J	1/6W	R247,248		RD14BB2C271J	RD	270	J	1/6W
R49		RD14BB2C473J	RD	47K	J	1/6W	R249,250		RD14BB2C683J	RD	68K	J	1/6W
R50		RD14DB2H122J	SMALL-RD	1.2K	J	1/2W	R251,252		RD14BB2C273J	RD	27K	J	1/6W
R51		RD14BB2C751J	RD	750	J	1/6W	R253-256		RD14BB2C683J	RD	68K	J	1/6W
R52		RD14DB2H222J	SMALL-RD	2.2K	J	1/2W	R257,258		RD14BB2C433J	RD	43K	J	1/6W
R81-84		RD14BB2E391J	RD	390	J	1/4W	R259		RD14BB2C302J	RD	3.0K	J	1/6W
R85,86		RS14KB3D121J	FL-PROOF RS	120	J	2W	R260		RD14BB2C153J	RD	15K	J	1/6W
R101,102		RD14BB2C102J	RD	1.0K	J	1/6W	R261		RD14BB2C682J	RD	6.8K	J	1/6W
R103,104		RD14BB2C912J	RD	9.1K	J	1/6W	R262		RD14BB2C153J	RD	15K	J	1/6W
R105-108		RD14BB2C183J	RD	18K	J	1/6W	R263		RD14BB2C623J	RD	62K	J	1/6W
R109-112		RD14BB2C332J	RD	3.3K	J	1/6W	R264		RD14BB2C473J	RD	47K	J	1/6W
R113-116		RD14BB2C362J	RD	3.6K	J	1/6W	R265,266		RD14BB2C182J	RD	1.8K	J	1/6W
R117-120		RD14BB2C103J	RD	10K	J	1/6W	R267,268		RD14BB2C472J	RD	4.7K	J	1/6W
R121-124		RD14BB2C912J	RD	9.1K	J	1/6W	R269		RD14BB2C752J	RD	7.5K	J	1/6W
R125-128		RS14KB3D560J	FL-PROOF RS	56	J	2W	R271,272		RD14BB2C183J	RD	18K	J	1/6W
R129,130		RD14BB2C511J	RD	510	J	1/6W	R273,274		RD14BB2C511J	RD	510	J	1/6W
R140		RD14BB2C102J	RD	1.0K	J	1/6W	R275,276		RD14BB2C182J	RD	1.8K	J	1/6W
R141-144		RD14BB2C222J	RD	2.2K	J	1/6W	R277,278		RD14BB2C561J	RD	560	J	1/6W
R145,146		RD14BB2C473J	RD	47K	J	1/6W	R279-282		RD14BB2C101J	RD	100	J	1/6W
R147,148		RD14BB2C271J	RD	270	J	1/6W	R283,284		RD14BB2E221J	RD	220	J	1/4W
R149,150		RD14BB2C683J	RD	68K	J	1/6W	R285-288		RD14BB2C2R2J	RD	2.2	J	1/6W
R151,152		RD14BB2C273J	RD	27K	J	1/6W	R289-292		RS14KB3DR22J	FL-PROOF RS	0.22	J	2W
R153-156		RD14BB2C683J	RD	68K	J	1/6W	R293,294		RD14BB2C751J	RD	750	J	1/6W
R157,158		RD14BB2C433J	RD	43K	J	1/6W	R295,296		RD14BB2E183J	RD	18K	J	1/4W
R159		RD14BB2C302J	RD	3.0K	J	1/6W	R297,298		RD14BB2E100J	RD	10	J	1/4W
R160		RD14BB2C153J	RD	15K	J	1/6W	R299		RD14BB2C102J	RD	1.0K	J	1/6W
R161		RD14BB2C682J	RD	6.8K	J	1/6W	VR1,2		R31-0209-05		VARIABLE RESISTOR (5K)		

E: Europe K: North America M: Other Areas  
W: Without Europe

 indicates safety critical components.

## PARTS LIST

\*New Parts

Parts without **Part No.** are not supplied.Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

Refer. No.	A d d e d w	Parts No.	Description	Desti- nation
VR3-6		R12-0606-05	TRIMMING POT. (330)	
S1,2		S62-0842-05	SLIDE SWITCH	
S3,4		S31-2630-05	SLIDE SWITCH	
S5		S62-0842-05	SLIDE SWITCH	
D1		RD7.5JS(B)	ZENER DIODE	
D2 -4		MA165	DIODE	
D5		RD10JS(B)	ZENER DIODE	
D6		MA165	DIODE	
D10		RM4ZLF-J1	DIODE	
D11,12		MA165	DIODE	
D13		FMU22S*A	DIODE	
D14		FMU22R*A	DIODE	
D15-18		RD20JS(B)	ZENER DIODE	
D19-22		RD7.5JS(B)	ZENER DIODE	
D23-26		MA165	DIODE	
D27		RD15JS(B)	ZENER DIODE	
D28		RD5.1JS(B)	ZENER DIODE	
D101-104		MA165	DIODE	
D111-114		E-562	CONSTANT CURRENT DIODE	
D201-204		MA165	DIODE	
D211-214		E-562	CONSTANT CURRENT DIODE	
IC1-4		UPC4574C	IC(OP AMP X4)	
IC5,6		M5219P	IC(OP AMP X2)	
IC7		UPC494C	IC(SWITCHING REGULATOR)	
Q1		2SC945(A)(Q,P)	TRANSISTOR	
Q2		2SA733(A)(Q,P)	TRANSISTOR	
Q3		2SC945(A)(Q,P)	TRANSISTOR	
Q4		2SA733(A)(Q,P)	TRANSISTOR	
Q5,6		2SC945(A)(Q,P)	TRANSISTOR	
Q7,8	*	MTAJ50N05HDLFK	FET	
Q9-12		2SC945(A)(Q,P)	TRANSISTOR	
Q13,14		2SA733(A)(Q,P)	TRANSISTOR	
Q15		2SC945(A)(Q,P)	TRANSISTOR	
Q101,102		2SC945(A)(Q)	TRANSISTOR	
Q103,104		2SC1627A	TRANSISTOR	
Q105,106		2SA817A	TRANSISTOR	
Q107,108		2SC4511*B	TRANSISTOR	
Q109,110		2SA1725*B	TRANSISTOR	
Q111,112		2SC945(A)(Q,P)	TRANSISTOR	
Q201,202		2SC945(A)(Q)	TRANSISTOR	
Q203,204		2SC1627A	TRANSISTOR	
Q205,206		2SA817A	TRANSISTOR	
Q207,208		2SC4511*B	TRANSISTOR	
Q209,210		2SA1725*B	TRANSISTOR	
Q211,212		2SC945(A)(Q,P)	TRANSISTOR	
TH1		ERT-D2ZHL103S	THERMISTOR	

Refer. No.	A d d e d w	Parts No.	Description	Desti- nation

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 indicates safety critical components.

# KAC-646X

## SPECIFICATIONS

***Specifications subject to change without notice.***

### **Audio Section**

Max Power Output (4 Ω)

4 Channel Mode .....	50 W × 4
3 Channel Mode .....	50 W × 2 + 140 W × 1
2 Channel Mode .....	140 W × 2

Rated Power Output (4 Ω)

4 Channel Mode .....	25 W × 4 (20 Hz ~ 20 kHz, less than 0.08 % THD)
3 Channel Mode .....	25 W × 2 (1 kHz, 0.08 % THD) + 70 W × 1 (1 kHz, 0.8 % THD)
2 Channel Mode .....	70 W × 2 (1 kHz, 0.8 % THD)

Rated Power Output (2 Ω)

4 Channel Mode .....	35 W × 4 (1 kHz, 0.8 % THD)
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Frequency Response .....

10 Hz ~ 45 kHz (+0, -1 dB)

Signal to Noise Ratio .....

100 dB

Sensitivity (MAX) .....

0.2 V (rated output)

Sensitivity (MIN) .....

4.0 V (rated output)

Input Impedance .....

10 kΩ

Low Pass Filter .....

80 Hz (12 dB/oct.)

High Pass Filter .....

150 Hz (12 dB/oct.)

### **General**

Operating Voltage .....

14.4 V (11 ~ 16 V allowable)

Current Consumption (1 kHz, 10% THD) .....

22 A

Dimensions (W × H × D) .....

260×52×209 mm

(10-1/4×2-1/16×8-1/4 in.)

Weight .....

2.5 kg (5.5 lb)